PROJECT REPORT

TWO STEP COMPRESSION USING HUFFMAN & DYNAMIC REPLACE WORDS ALGORITHM ON HTML & TEXT FILE

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03.02.0054

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FACULTY OF COMPUTER SCIENCE

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APPROVAL AND RATIFICATION PAGE

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This project report already approved and ratified by Dean of Faculty of Computer Science and supervisor on .....

With the approval,

Examiner,	Examiner,
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STATEMENT OF ORIGINALITY

I, the undersigned :

Name : Edward Christoforus Mo'a

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Hereby certify that this project was made by my self and not copy or plagiarizes from other people, except that in writing expressed to the other article.

If next time prove that this project was plagiarizes or copy the other, hence I readies receives a sanction.

Semarang, 11 August 2008

Edward Christoforus Mo'a

03.02.0054

FOREWORD

First of all, I am grateful to the Lord, Jesus Christ, who has been always with me in all my life, specially when I was doing this final project entitled "TWO STEP COMPRESSION USING HUFFMAN AND DYNAMIC REPLACE WORDS ALGORITHM". I do feel His invisible helping hands in facing so many different difficulties and handicaps that has led me to the best solution.

There have been a lot of experiences I have got during my doing this final project, both good ones and bad ones. They all, however, have played and important role in making me to be better and to be closer to God, the Almighty.

As a matter of fact, I have been studying for five years in Faculty of Computer Science, and I feel I owe special thanks to lectures from whom I have got valuable guidance, directives and support, as well as the officials who have played a significant role in the succes of my study. I also found out that I was not just leraning about computer science but more than that I also learned a lot about how the life is that brings me to become a better person.

My special gratitude also goes to Mr. Ridwan Sanjaya, SE, Skom, MS IEC, my supervisor, who is good lecturer and has been so patient giving me guidance and helping me in the process of doing this final project.

I proudly dedicate this Final Project to my parents, my brother and sister, and all the members of my big family who have been always supporting me with deep love, continuous prayer and nice understanding.

I owe special thanks to friends who helped me in various ways to evade improper difficulties during my doing this final project who I cannot mention here one by one.

Last but not least, I would like to apologize for any mistake I have done in completing this project, and accordingly constructive critics and suggestions would be welcome.

Semarang, 11 August 2008

Edward Christoforus Mo'a

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TWO STEP *COMPRESSION* USING HUFFMAN ALGORITHM & DYNAMIC REPLACE WORDS ON HTML & TEXT FILE

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Abstract

Nowadays a computer can handle a lot of different work, starting from data processing, digital features processing, multimedia, games, etc. The ability of the computer should be certainly balanced by a proper storage medium.Anyway, whatever the size of the storage of a medium, it will at last be full. Then what is the solution? COMPRESSION is one of the solutions! Because by making compression on the file wich is going to be saved in the storage media , it is hoped to save disk space on the storage media.

In this Final Project, the application is done in HTML and text file using Huffman Algorithm and Dynamic Replace Words Algorithm. The Data Structure tree is used in this application. Huffman Algorthm is suitable for this project because there is a frequency count of appearing data and the coding of data becomes smaller than it was before. While Tree is used to form dictionary file. The Replace character in this Project is found through a dynamic searching method and frequency count of appearing character. It is hoped through this method its compression scope is larger and the result of the compression is more efficient as well.

Keywords : Compression, Huffman Algorithm, Dynamic Replace Words Algorithm, HTML file, text file